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> d his

        (FILE 'USPAT' ENTERED AT 12:40:41 ON 23 APR 1998)
L1          0 S 707/105/CCLS
L2        109 S 707/103/CCLS
L3        222 S 11-10
L4        109 S 707/103/CCLS
L5          5 S INDEXING SUBSYSTEM
L6          0 S L5 AND DOCUMENT MANAGEMENT SYSTEM
L7          0 S INFORMATION MANAGEMENT SYSTEM (W) INDEXING SUBSYSTEM
L8          0 S INDEXING SUBSYSTEM (W) FILE MANAGEMENT
L9        223 S DATABASE TABLES
L10         0 S L9 AND HIERARCHIE
L11         3 S METADATA TABLE
L12        10 S INDEX (P) MANAGED FILES
L13         5 S ATTRIBUTE STORAGE (P) DATABASE
L14       836 S RELATIONAL DATABASE
L15         0 S L14 (P) OBJECT-ORIENTED MANAGER
L16         0 S RELATIONAL DATABASE (P) SIBLING FILES
L17         0 S RELATIONAL DATABASE (W) OBJECTS
L18       447 S RELATIONAL DATABASE AND FILES
L19        31 S RELATIONAL DATABASE AND FILE STORAGE
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> s relational database and file storage range=1995

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           303  RELATIONAL
          1537  DATABASE
           114  RELATIONAL DATABASE
                 (RELATIONAL(W)DATABASE)
          3638  FILE
         22167  STORAGE
            89  FILE STORAGE
                 (FILE(W)STORAGE)
L25         2   RELATIONAL DATABASE AND FILE STORAGE
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SUMMARY:

BSUM(2)

 This invention relates to computerized database systems. More
particularly, this invention relates to an interactive interface for
graphically formulating a **relational database** query and
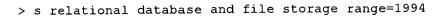simultaneously formulating a report format to display the results of the
query.

SUMMARY:

BSUM(4)

 Computer databases that store data electronically are commonly used for
retrieving data more efficiently and easily than paper **file
storage** methods. Database systems can be used to produce reports
organizing the data for output to the user in clear formats. For example,
an employee database can contain data on employees such as their
respective names, salaries, departments, managers, and employee IDs. This
information can be periodically retrieved and organized into reports,
such as a report on all employees having salaries in a given salary
range. The report could specify, for those employees having a salary in a
given range, their names, employee IDs and departments. Similarly, a
report can be produced on every employee in a given department,
containing their names and employee ID.

SUMMARY:

BSUM(5)

 One type of computer software database management system for logically
organizing the data stored in the database is a **relational
database** management system (RDBMS). In a RDBMS, the data is logically
stored in tables having columns corresponding to attributes of the data
(such as employee ID, salary, and department number) and rows
corresponding to the records of grouped attributes (such as the
attributes for a given employee). Query languages such as the structured
query language (SQL) are used to query the database and extract
particular portions of the data, such as a list of particular attributes
of employees having a certain range of salary, as described above.

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> s relational database and file storage range=1994

              254 RELATIONAL
             1254 DATABASE
               75 RELATIONAL DATABASE
                    (RELATIONAL(W)DATABASE)
             3020 FILE
            21497 STORAGE
               57 FILE STORAGE
                    (FILE(W)STORAGE)
L26               5 RELATIONAL DATABASE AND FILE STORAGE

=> d 1-5


1.  5,333,183, Jul. 26, 1994, Universal MDR data record collection and
reporting system; James H. Herbert, 379/112, 121, 126 [IMAGE AVAILABLE]

2.  5,303,367, Apr. 12, 1994, Computer driven systems and methods for
managing data which use two generic data elements and a single ordered
file; Richard B. Leenstra, Sr., et al., 707/102; 364/222.81, 282.1,
283.1, DIG.1 [IMAGE AVAILABLE]

3.  5,293,615, Mar. 8, 1994, Point and shoot interface for linking
database records to spreadsheets whereby data of a record is
automatically reformatted and loaded upon issuance of a recalculation
command; Carlos A. Amada, 707/4; 345/418; 364/225, 282.1, 918, 943.1,
974, DIG.1, DIG.2 [IMAGE AVAILABLE]

4.  5,276,867, Jan. 4, 1994, Digital data storage system with improved
data migration; Gregory Kenley, et al., 707/204; 364/222.81, 236.2,
236.4, 238, 239, 239.9, 240.8, 242.6, 242.94, 242.95, 243, 243.4, 243.41,
244, 244.6, 246, 246.1, 246.6, 246.8, 248.1, 248.2, 249.4, 254, 254.3,
256.3, 261, 268, 268.2, 268.3, 268.4, 280, 280.9, 282.1, 285, 285.1,
DIG.1; 711/112 [IMAGE AVAILABLE]

5.  5,276,860, Jan. 4, 1994, Digital data processor with improved backup
storage; Richard W. Fortier, et al., 395/182.04; 364/268, 268.2, 285,
285.1, DIG.1 [IMAGE AVAILABLE]

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US PAT NO:     5,333,183 [IMAGE AVAILABLE]          L26: 1 of 5

DETDESC:

DETD(70)


  The administrator processor software preferably runs under a version of
the UNIX operating system available from Sun Micro Systems, SunOS 4.1.1.
UNIX is a portable multiuser operating system originally developed by
AT&T Bell Labs. A relational database 85 is used to store data on
the configuration of the message processors and the customers they serve.
This database is also used to hold the statistical data retrieved from
the message processors. The operating system under which the system runs
should permit the use of a relational database system which has a
number of advantages including a powerful, flexible high level language
for producing reports and a user friendly MMI 87. The database program
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